

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A cholesteric liquid crystal (CLC) color filter layer, comprising:
a light-absorption layer on a substrate; and
red, green and blue CLC color filters on the light-absorption layer, the red, green and blue CLC color filters reflecting light components of red, green and blue wavelengths, respectively; and
wherein the red CLC color filter includes an additional blue CLC color filter therein in a same layer as the red CLC.

2. (Original) The CLC color filter of claim 1, further comprising a green CLC color filter that includes the additional blue CLC color filter therein.

3. (Currently Amended) A cholesteric liquid crystal (CLC) color filter layer, comprising:
a light-absorption layer on a substrate; and
red, green and blue CLC color filters on the light-absorption layer, the red, green and blue CLC color filters reflecting light components of red, green and blue wavelengths, respectively; and
wherein the green CLC color filter includes an additional blue CLC color filter therein in a same layer as the green CLC.

4. (Currently Amended) A cholesteric liquid crystal (CLC) color filter layer, comprising:
a light-absorption layer on a substrate; and

red, green and blue CLC color filters on the light-absorption layer, the red, green and blue CLC color filters reflecting light components of red, green and blue wavelengths, respectively; and

wherein the blue CLC color filter includes an additional red CLC color filter therein in a same layer as the blue CLC.

5. (Currently Amended) A cholesteric liquid crystal (CLC) color filter layer, comprising:

a light-absorption layer on a substrate; and

red, green and blue CLC color filters on the light-absorption layer, the red, green and blue CLC color filters reflecting light components of red, green and blue wavelengths, respectively; and

wherein the blue CLC color filter includes an additional green CLC color filter therein in a same layer as the blue CLC.

6. (Currently Amended) A method of forming a cholesteric liquid crystal (CLC) color filter layer, comprising:

forming a light-absorption layer on a substrate;

forming a cholesteric liquid crystal layer on the light-absorption layer; and

forming red, green and blue CLC color filters by applying ultraviolet light to the CLC layer, respectively;

wherein the red, green and blue CLC color filters reflect light components of red, green and blue wavelengths, respectively; and

wherein forming the blue CLC color filter includes forming an additional blue CLC color filter in the same layer as the red CLC color filter.

7.8. (Original) The method of claim 6, wherein the additional blue CLC color filter is in periphery of the red CLC color filter.

8.9. (Currently Amended) The method of claim 6, wherein forming the blue CLC color filter further comprises forming the additional blue CLC color filter in a same layer as the green CLC color filter.

rule 126
9.10. (Original) The method of claim 8.9, wherein the additional blue CLC color filter is in periphery of the green CLC color filter.

10.11. (Original) The method of claim 6, wherein the size of the additional blue CLC color filter is adjustable in the red CLC color filter.

11. (Not Used)

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12. (New) A method of forming a cholesteric liquid crystal (CLC) color filter layer,

comprising:

forming a light-absorption layer on a substrate;

forming a cholesteric liquid crystal layer on the light-absorption layer; and

forming red, green and blue CLC color filters by applying ultraviolet light to the CLC layer, respectively;

wherein the red, green and blue CLC color filters reflect light components of red, green and blue wavelengths, respectively; and

wherein forming the blue CLC color filter includes forming an additional blue CLC color filter in the same layer as the green CLC color filter.

¹² 13. (New) The method of claim ¹¹ 12, wherein the additional blue CLC color filter is in periphery of the green CLC color filter.

¹³ 14. (New) The method of claim ¹¹ 12, wherein forming the blue CLC color filter further comprises forming the additional blue CLC color filter in a same layer as the red CLC color filter.

¹⁴ 15. (New) The method of claim ¹³ 14, wherein the additional blue CLC color filter is in periphery of the red CLC color filter.

¹⁵ 16. (New) The method of claim ¹¹ 12, wherein the size of the additional blue CLC color filter is adjustable in the green CLC color filter.

¹⁶ 17. (New) A method of forming a cholesteric liquid crystal (CLC) color filter layer, comprising:

forming a light-absorption layer on a substrate;

forming a cholesteric liquid crystal layer on the light-absorption layer; and

forming red, green and blue CLC color filters by applying ultraviolet light to the CLC layer, respectively;

wherein the red, green and blue CLC color filters reflect light components of red, green and blue wavelengths, respectively; and

wherein forming the red CLC color filter includes forming an additional red CLC color filter in the same layer as the blue CLC color filter.

¹⁷ 18. (New) The method of claim ¹⁶ 17, wherein the additional red CLC color filter is in periphery of the blue CLC color filter.

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19. (New) The method of claim ¹⁶17, wherein forming the blue CLC color filter further comprises forming the additional red CLC color filter in a same layer as the green CLC color filter.

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20. (New) The method of claim ¹⁸19, wherein the additional red CLC color filter is in periphery of the green CLC color filter.

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21. (New) The method of claim ¹⁶17, wherein the size of the additional red CLC color filter is adjustable in the blue CLC color filter.

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22. (New) A method of forming a cholesteric liquid crystal (CLC) color filter layer, comprising:

forming a light-absorption layer on a substrate;

forming a cholesteric liquid crystal layer on the light-absorption layer; and

forming red, green and blue CLC color filters by applying ultraviolet light to the CLC layer, respectively;

wherein the red, green and blue CLC color filters reflect light components of red, green and blue wavelengths, respectively; and

wherein forming the green CLC color filter includes forming an additional green CLC color filter in the same layer as the blue CLC color filter.

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23. (New) The method of claim ²¹22, wherein the additional green CLC color filter is in periphery of the blue CLC color filter.

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24. (New) The method of claim ²¹22, wherein forming the blue CLC color filter further comprises forming the additional green CLC color filter in a same layer as the red CLC color filter.

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25. (New) The method of claim ²³~~24~~, wherein the additional blue CLC color filter is in periphery of the red CLC color filter.

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26. (New) The method of claim ²¹~~22~~, wherein the size of the additional green CLC color filter is adjustable in the blue CLC color filter.